

application into better form for Appeal should an Appeal be necessary. The Amendment does not present any additional claims without canceling a corresponding number of finally rejected claims, does not raise the issue of new matter, and does not raise any new issues requiring additional search and/or consideration since the Amendment is directed to subject matter previously considered during prosecution. Furthermore, the amendments merely cancel rejected claims. Applicants respectfully request entry of the Amendment.

I. Formal Matters

A. Information Disclosure Statement

An Information Disclosure Statement with Forms PTO-1449 was filed on January 31, 2000. Although the first Office Action enclosed copies of the Forms PTO-1449, the Form 2 of 4 was not initialed by the Examiner to acknowledge the fact that the Examiner has considered the cited information. This deficiency has repeatedly been pointed out in Applicant's responses, but has not been addressed by the Patent Office. The Examiner is again requested to initial and return to the undersigned a copy of the subject Form PTO-1449. For the convenience of the Examiner, a copy of that form is attached.

B. Pending Claims

The Office Action continues to indicate that claims 1-144 are pending, and lists claim 53 among the rejected claims in the pending application. However, claim 53 was canceled by the Amendment filed July 24, 2001. Clarification of the status of claim 53 is requested in the next Patent Office communication.

C. Objected-to Claims

Applicants thank the Examiner for the indication that claims 41, 42, 46, 84, 85, 89, 138 and 139 are objected to as being dependent upon a rejected base claim, but are otherwise allowable. For all the reasons set forth below, all of claims 1-52 and 54-144 are believed to be in condition for allowance.

II. Rejection Under 35 U.S.C. §103

Claims 1-40, 43-45, 47-83 [sic, claims 47-52 and 54-83], 86-88, 90-137 and 140-144 are rejected under 35 U.S.C. §103(a) over WO '598 or WO '797. Because the disclosures of these references are similar, at least with respect to their applicability to the present claims, the references will be addressed together. Applicants respectfully traverse these rejections.

A. Independent Claim 1

Claim 1 is directed to a method of applying at least one agent selected from the group consisting of bioactive materials, flavorants, polymerization initiators, and polymerization rate modifiers to an applicator tip for an adhesive applicator, comprising: dissolving or dispersing said agent in a low boiling point solvent to form a solution; applying said solution to said applicator tip; and drying said applicator tip; wherein the low boiling point solvent comprises methanol. Such a method is nowhere taught or suggested in the cited references.

1. The References Do Not Teach or Suggest Using Methanol

An aspect of the claimed invention is that while the various materials may be applied to the applicator tip in a number of different ways or in a number of solutions, the use of a solution comprising methanol provides a distinct advantage. In particular, as described in the specification, the present inventors discovered that the use of methanol, alone or as a component of a mixture of low boiling point solvents, provides an unexpectedly superior distribution profile of the material on, and within, the applicator tip, and provides desirable setting characteristics. Specification at page 6, lines 2-6. In particular, the superior distribution profile allows a shorter or equivalent setting (polymerization) time of the dispensed monomeric adhesive while avoiding tissue damage due to the highly exothermic polymerization reaction. Specification at page 6, lines 6-9.

The cited references fail to teach or suggest applying the specified agents to an applicator tip using a solvent comprising methanol. At most, WO '598 discloses that "the

applicator tip material may be porous, absorbent or adsorbent in nature to enhance and facilitate loading of the initiator on or within the applicator tip." Page 18, lines 34-36. The reference then discloses that the initiators "may be applied to a surface portion or to the entire surface of the applicator tip, including the interior and the exterior of the tip." Page 19, lines 15-18. Finally, WO '598 discloses that a liquid medium used to apply the initiator "may include non-aqueous solvents, such as ether, acetone, ethanol, pentane or mixtures thereof, or may include aqueous solutions. Preferably the liquid medium is a low boiling point solvent." Page 20, line 37 to page 21, line 4.

WO '797 includes substantially similar disclosures. See, for example, page 15, lines 15-18; page 15, line 35 to page 16, line 4; and page 17, lines 24-28.

Thus, while WO '598 and WO '797 disclose that a low boiling point solvent can be used, and disclose various suitable solvents, the references do not teach or suggest the use of a low boiling point solvent that comprises methanol, as claimed. Nor does either reference teach or suggest that methanol could or should be used in place of or in addition to any of the specified solvents. Accordingly, the references would not have rendered obvious to one of ordinary skill in the art the invention of independent claim 1, and the claims dependent therefrom.

2. The Claimed Invention Provides Unexpected Results

Furthermore, the selection of methanol as a solvent for applying the agent provides unexpected results that are not taught or suggested by the cited references. Such unexpected results overcome any prima facie case of obviousness that may be considered to have been established by the Office Action.

a. The Specification Demonstrates Unexpected Results

As mentioned above, the use of methanol provides an unexpectedly superior distribution profile of the material on, and within, the applicator tip. This different

distribution profile, in turn, allows a reduction in tissue damage arising from the highly exothermic polymerization reaction, while providing a lower or equivalent setting time of the dispensed monomeric adhesive. Specification at page 6, lines 2-9.

At most, the cited references teach that a variety of solvents can be used, but that comparable results would be achieved regardless of the selection of solvent. That is, nowhere does either cited reference teach or suggest that different results would be obtained if one solvent were selected over another solvent. In contrast, the present specification provides express exemplary evidence that different and unexpected results are obtained based on the solvent selection.

At page 9, the present specification describes comparative testing of applicator tips made according to the claimed invention versus applicator tips made according to U.S. Patent No. 5,928,611, which corresponds to WO '797 and is comparable to WO '598. The specification describes that initiator-loaded applicator tips were produced by applying a polymerization initiator or a polymerization rate modifier (benzalkonium chloride) to the tip by pumping a liquid medium comprising the initiator or rate modifier through a syringe and onto the distal end of the tip. Separate initiator-loaded tips were prepared by using a solution of the initiator or rate modifier dissolved in 110 μ L of various solvents. Page 9, line 28 to page 10, line 9. The tips were prepared using the solvents acetone (disclosed in the Examples of WO '797) and methanol (according to the claimed invention).

In the case where acetone was used, the specification describes that different results were obtained when the applicator tips are used to apply a polymerizable cyanoacrylate adhesive material. For example, the specification describes that it can be shown using thermal analysis techniques such as differential scanning calorimetry, that monomer compositions applied through the different applicator tips generate different amounts of heat. If the peak temperature of heat generated is too high, then the heat can be damaging to tissues.

Page 9, lines 14-16. For example, as shown in Figure 5, a composition comprising 2-octyl cyanoacrylate dispensed through an applicator tip having an initiator (benzalkonium chloride) applied with acetone generates heat having a peak temperature of about 80°C. Page 9, lines 16-20. However, the same composition dispensed through a tip having the same initiator applied using methanol according to the claimed invention shows a much lower peak temperature of approximately 40°C. Page 9, lines 20-22.

Furthermore, as shown in Figure 6 of the specification, the setting time, or the amount of time required for polymerization, of a 2-octyl cyanoacrylate composition is slightly lower or at least equivalent when the cyanoacrylate composition is dispensed through a tip having a benzalkonium chloride initiator disposed thereon using methanol as compared to using acetone. See specification at Fig. 6 and page 9, lines 23-27.

b. The Attached Declaration Confirms the Unexpected Results

Furthermore, the unexpected results provided by the claimed invention are confirmed by the attached Declaration. In the Declaration, a series of tests are described to more specifically isolate the effects of solvent selection on polymerization of the monomer. That is, while the above discussion has focused on the solvent selection in systems having many variables, the testing described in the Declaration is more specific to demonstrate the different results provided when a different solvent is used to solvate the initiator. See Declaration at paragraph 4.

In the described testing, each of methanol, ethanol and acetone was used to solvate the initiator, and the solvated initiator was mixed with cyanoacrylate to determine the gel set time of the combination. See Declaration at paragraph 5. In the described testing, methanol was selected as the claimed invention; acetone was selected as a representative example of WO '797 and WO '598; and ethanol was selected as the closest homolog to methanol and as the solvent relied upon in the instant rejection in the Office Action.

The position in the Office Action is that the results for methanol and ethanol should be comparable, since they are adjacent homologs. However, the Declaration proves this assumption of the Office Action to be erroneous. Based on the experiments, the Declaration demonstrates that the use of methanol provides a gel set time of 15.6 minutes, compared to a gel set time of 7.6 minutes for ethanol and 0.4 minutes for acetone. The gel set time for methanol is thus over twice that for ethanol, not comparable as asserted in the Office Action.

Although the mechanisms of why the different results are provided are not known, the data demonstrates that methanol provides results that are significantly different from the results provided by ethanol or acetone. One of ordinary skill in the art, based on the disclosures of WO '797 and WO '598, would not have expected the significantly different results that are in fact provided by the claimed invention.

c. Conclusion

These results, presented in the present specification, demonstrate that the applicator tips of WO '797 (and WO '598) are different from the applicator tips of the claimed invention, and that the applicator tips of the claimed invention provide significant and unexpected benefits not disclosed in the cited references.

3. Methanol as a Homolog of Ethanol Does Not Establish Obviousness

The Office Action argues that the claimed invention would further have been obvious over the cited references because the references disclose the use of ethanol, and the claimed use of methanol is merely a homolog of the disclosed ethanol. However, this fact alone does not establish obviousness of the claimed invention.

Although the instantly claimed methanol may be a homolog of the disclosed ethanol, the asserted homology alone would not have rendered obvious the claimed invention. In particular, the law of homology is based on the assumption that similar compounds will provide similar results. However, as described above, the claimed invention provides

unexpected results over the disclosure of the cited references. The present specification explicitly discloses that in fact the claimed invention provides significantly different results from the cited references.

Further, the attached Declaration clearly demonstrates that the compounds do not provide similar results, as argued by the Office Action. Thus, obviousness of the claimed invention can not be based simply on the asserted homology between methanol and ethanol.

4. Conclusion

Accordingly, for at least these reasons, the references cannot have rendered obvious to one of ordinary skill in the art the invention of independent claim 1, and the claims dependent therefrom. Reconsideration and withdrawal of the rejection with respect to these claims are respectfully requested.

B. Independent Claims 26 and 76

Independent claim 26 is directed to a method of making an applicator for adhesives, comprising: preparing a conduit for a fluid polymerizable adhesive composition operably connected to an applicator tip so that fluid flowing through said conduit also flows through said applicator tip, wherein an agent is included on or in said applicator tip, wherein said agent is selected from the group consisting of (a) a bioactive material that is not also a polymerization initiator or a polymerization rate modifier, (b) a bioactive material that is also a polymerization initiator or a polymerization rate modifier, (c) a polymerization initiator that is not also a bioactive material, (d) a polymerization rate modifier that is not also a bioactive material, and (e) a flavorant, and wherein the agent is dissolved or dispersed in a solvent comprising methanol to form a solution, and said solution is applied to said applicator tip, at least when the agent is (b), (c) or (d).

Similarly, amended independent claim 76 is directed to an applicator for a polymerizable adhesive, comprising: an applicator tip attached to an applicator body, and at

least one agent on or in said applicator tip, wherein said agent is selected from the group consisting of (a) a bioactive material that is not also a polymerization initiator or a polymerization rate modifier, (b) a bioactive material that is also a polymerization initiator or a polymerization rate modifier, (c) a polymerization initiator that is not also a bioactive material, (d) a polymerization rate modifier that is not also a bioactive material, and (e) a flavorant, and wherein the agent is dissolved or dispersed in a solvent comprising methanol to form a solution, and said solution is applied to said applicator tip, at least when the agent is (b), (c) or (d).

Such a method and applicator are not taught or suggested in the cited references.

1. The Claims Are Clear As Presented

The Office Action argues that Applicant's previous arguments with respect to these claims are not understood. However, Applicant submits that the claims are clear and definite as presented, and that Applicant's argument directly correspond to the claims.

Each of claims 26 and 76 specify definite Markush groups of agents being applied to an applicator tip, and solvents used to apply those agents. Thus, for example, the claims require that methanol be used in a solution to apply the agent to the applicator tip, except where the agent is either (i) a bioactive material that is not also a polymerization initiator or a polymerization rate modifier, or (ii) a flavorant. In contrast, where the agent is either (i) a bioactive material that is not also a polymerization initiator or a polymerization rate modifier, or (ii) a flavorant, then the agent can be applied using any desired solvent, which may or may not include methanol.

2. The Claims Are Patentable Over the Cited References

As described above, the cited references fail to teach or suggest applying an agent to the applicator tip in a solution, where the solution includes a low boiling point solvent that comprises methanol, as claimed. The cited references further fail to teach or suggest the

unexpected results that are provided by the use of methanol as a solvent. Thus, as to embodiments of the claim where methanol is required as the solvent, such embodiments would not have been obvious over the cited references for all of the reasons described above.

Moreover, with respect to the embodiments of the claims where methanol is not required, i.e., where any solvent can be used, the references also fail to teach or suggest either applying a flavorant to the applicator tip, or applying a bioactive but non-initiator or -rate modifier to the applicator tip, as claimed.

As described in the Office Action, both WO '598 and WO '797 are directed to methods and applicator tips where a polymerization initiator or rate modifier is applied to an applicator tip. However, the references do not teach or suggest that other materials, which are not polymerization initiators or rate modifiers, could or should be applied to the applicator tip. Thus, neither reference teaches or suggests that a flavorant could or should be applied to the applicator tip. Likewise, neither reference teaches or suggests that a material, which is not a polymerization initiator or rate modifier, could or should be applied to the applicator tip.

In order to have rendered obvious the claimed invention, the reason, suggestion or motivation for combining the references or for modifying their disclosures "can not come from the applicant's invention itself." In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). That is, the motivation for combining or modifying the references can not be a product of hindsight reconstruction of the claimed invention based on applicant's own disclosure.

Such a hindsight reconstruction has clearly been made in the present Office Action. The Office Action asserts that the claimed invention would have been obvious based on a hindsight evaluation of the claimed invention and the cited references. Because neither reference teaches or suggests that a flavorant or that a bioactive but non-polymerization initiator or rate modifier could or should be applied to an applicator tip, the only motivation for doing so comes from Applicants' present invention. However, deriving the claimed invention in this manner is

improper because the references, viewed by themselves and not in retrospect, must suggest the combination asserted by the Office Action. In re Shaffer, 229 F.2d 476, 108 USPQ 326 (C.C.P.A. 1956); In re Stoll, 523 F.2d 1392, 187 USPQ 481 (C.C.P.A. 1975). Here the references do not provide any motivation for modifying the references so as to arrive at the claimed invention; the only motivation for modifying the cited references in the manner asserted in the Office Action derives from the disclosure of the present application, which is clearly improper.

Accordingly, for at least these reasons, the references cannot have rendered obvious to one of ordinary skill in the art the invention of independent claims 26 and 76, and the claims dependent therefrom. Reconsideration and withdrawal of the rejection with respect to these claims are respectfully requested.

C. Independent Claim 50

Independent claim 50 is directed to a method of applying at least one agent selected from the group consisting of bioactive materials, flavorants, polymerization initiators, and polymerization rate modifiers to an applicator tip for an adhesive applicator, comprising: dissolving, dispersing or suspending said agent in a liquid medium to form a suspension or solution; combining said suspension or solution and said applicator tip in a vessel; sealing said vessel; applying one of a vacuum or pressure to said vessel to degas air trapped in said applicator tip; releasing said vacuum or pressure; and optionally drying said applicator tip. Such a method is nowhere taught or suggested by the cited references.

The method of claim 50 is directed to an improved method for applying the respective agents to an applicator tip. According to the claimed method, application of the vacuum or pressure results in air that is trapped in the applicator tips being degassed, or forced out of the applicator tips, and being replaced by the solution or suspension including the desired agent. This replacement of air by the solution or suspension thereby loads the material onto or into

the applicator tips. Specification at page 11, lines 18-24. The claimed method thus results in an improved loading of the agent into the applicator tip.

In contrast to the claimed invention, WO '598 and WO '797 merely disclose that "the initiator may be applied to the applicator tip by spraying, dipping, or brushing the applicator tip with a liquid medium containing the initiator." See WO '598 at page 20, lines 34-37; WO '797 at page 17, lines 21-24. Nowhere does either reference teach or suggest that the initiator, or other instantly claimed agent, could or should be applied to the applicator tip by a method specifically utilizing vacuum or pressure to force the agent into the applicator tip. *Not in claim*

*says
spraying*

As described above, in order for a reference to have rendered obvious the claimed invention, the claimed invention must have been obvious to one of ordinary skill in the art over the cited reference. The motivation to modify the cited references cannot come from Applicants' own disclosure. However, nowhere does either reference teach the use of vacuum or pressure to apply an agent to an applicator tip. Nor does either reference even suggest that such vacuum or pressure could even be used.

The Office Action entirely fails to specify why one of ordinary skill in the art would have been motivated to somehow modify the processes disclosed in the cited references to arrive at the claimed invention. The Office Action does not describe why one of ordinary skill in the art would have substituted the claimed use of vacuum or pressure for the disclosed use of spraying, dipping, or brushing. In the absence of any such teachings, the cited references cannot have rendered obvious the claimed invention.

The Office Action attempts to overcome this deficiency of the references by arguing that the references "disclose heating the applicator tip in a vacuum oven." However, that disclosure of the references is taken out of context, and does not teach or suggest the claimed invention.

As pointed out in the Office Action, the references make reference to the use of a vacuum oven. However, the vacuum oven is not used to apply the material to the applicator tip, as claimed. Rather, the references merely disclose that "Subsequent to application of the initiator on or in the applicator tip, the applicator tip may be dried or heated to evaporate or volatilize the liquid medium or to evenly distribute or impregnate initiator in the applicator tip." WO '797 at page 18, lines 7-15 (emphasis added).

Accordingly, for at least these reasons, the references cannot have rendered obvious to one of ordinary skill in the art the invention of independent claim 50 and the claims dependent therefrom. Reconsideration and withdrawal of the rejection with respect to these claims are respectfully requested.

D. Independent Claim 52

Claims 52 and 54-75 are canceled herein, thus rendering the rejection of these claims moot.

E. Independent Claim 123

Independent claim 123 is directed to an applicator for a polymerizable adhesive comprising: a conduit for a fluid polymerizable adhesive material; and an applicator tip operably connected to said conduit so that fluid flowing through said conduit also flows through said applicator tip; wherein said applicator tip has a gradient of a polymerization initiator or polymerization rate modifier disposed therein. Such an applicator is not taught or suggested by the cited references.

1. The References Do Not Teach or Suggest a Concentration Gradient

The claimed invention is distinct from the applicator tip disclosed in WO '598 or WO '797. In contrast to the claimed applicator tip that has a concentration gradient of a polymerization initiator or polymerization rate modifier disposed therein, the cited references merely disclose that an initiator can be applied to the surface or internal portions of an

applicator tip. The references nowhere teach or suggest that the initiator can be applied to the bulk material of an applicator tip, such that a concentration gradient of the initiator is provided.

At most, the references disclose that the initiator can be applied in solution with a low boiling point solvent. WO '598 at page 20, line 37 to page 21, line 4, and WO '797 at page 17, lines 24-28. However, an important feature of the claimed invention is that the initiator can be applied in an anisotropic distribution or concentration gradient, rather than at a constant concentration, throughout the applicator tip. As such, a greater concentration of the initiator can be provided at either the front or back end of the applicator tip, to provide for more preferable mixing with and initiation of the monomer material. For example, the present specification teaches that a concentration gradient can be provided, that increases or decreases from the beginning of the applicator tip to the end of the applicator tip. Page 6, lines 25-31; page 9, line 28 to page 10, line 9.

Thus, the present claimed invention specifically provides for a concentration gradient of the initiator, whereas no such concentration gradient is taught or suggested by WO '598 or WO '797. While the cited references teach that the initiator can be applied either on the applicator tip surface or inside the applicator tip matrix, the references do not teach or suggest that the initiator can be applied inside the applicator tip matrix in a concentration gradient profile to provide improved mixing properties. In the absence of such a teaching, one of ordinary skill in the art would not have been motivated to modify the teachings of WO '598 or WO '797 to practice the claimed invention.

2. The Office Action Misunderstands the Claim Limitation

In response, the Office Action previously admitted that the references do not disclose the concentration gradient. However, the Office Action argues that "it would have been obvious to one skilled in the art at the time of the invention to utilize a concentration gradient

to allow the agent to flow from the conduit to the applicator tip." However, this argument has nothing to do with the instant claim limitation, and appears both incorrect and irrelevant.

As claimed, the concentration gradient is a concentration gradient present in the applicator tip itself, and is a concentration gradient of the polymerization initiator or polymerization rate modifier, which is disposed in the applicator tip itself. That is, the polymerization initiator or polymerization rate modifier is disposed in the applicator tip in a fashion that forms a concentration gradient.

With respect to the Office Action's assertions, the agent does not "flow from the conduit to the applicator tip." Rather, the polymerization initiator or polymerization rate modifier is disposed in the applicator tip itself, and it is the fluid, i.e., adhesive, that flows through the conduit then through the applicator tip.

Furthermore, even if the Office Action's assertion was true, which it is not, the Office Action provides no explanation of why a concentration gradient would have any effect on the flow of the agent. Moreover, the Office Action fails to describe why the claimed concentration gradient would have been obvious over the cited references, where a concentration gradient is not formed.

The Office Action cannot merely pick a limitation from the present claims, and make a blanket assertion that the limitation would have been obvious. The Office Action must establish why the limitation would have been obvious over the cited references. The Office Action has failed to satisfy this burden.

3. Conclusion

Accordingly, for at least these reasons, the references cannot have rendered obvious to one of ordinary skill in the art the invention of independent claim 123 and the claims dependent therefrom. Reconsideration and withdrawal of the rejection with respect to these claims are respectfully requested.

F. Independent Claim 135

Independent claim 135 is directed to an applicator for applying a polymerizable monomeric adhesive composition, comprising: an applicator body, and an applicator tip attached to the applicator body, wherein said applicator body is free of a polymerizable adhesive reservoir, and wherein at least one agent selected from the group consisting of bioactive materials, flavorants, polymerization initiators, and polymerization rate modifiers is present on or in said applicator tip. Such an applicator is not taught or suggested in the cited references.

WO '598 and WO '797 fail to teach or suggest that the applicator is "free of a polymerizable adhesive reservoir" as claimed. Both references disclose applicator containers that contain an amount of adhesive material, that is applied to a desired surface by expressing the material through the applicator tip. See, for example, WO '598 at page 17, lines 25-37 and WO '797 at Figures. WO '598 discloses that the applicator can be, for example, a crushable swab applicator, a syringe, a vial, an adhesive gun, a pipette, and an eyedropper. See WO '598 at page 17, line 29; and page 18, line 18. WO '797 has a similar disclosure. See WO '797 at page 14, lines 34-38.

However, neither reference teaches or suggests an applicator tip attached to an applicator body that is free of a polymerizable adhesive reservoir, and where at least one agent selected from the group consisting of bioactive materials, flavorants, polymerization initiators, and polymerization rate modifiers is present on or in the applicator tip, as claimed. Nowhere does either reference appear to teach or suggest that the applicator should be provided such that it is free of a polymerizable adhesive reservoir.

In fact, providing the applicators of WO '598 and WO '797 to be free of a polymerizable adhesive reservoir, would appear to be directly contradictory to the disclosures of the references. The references' focus upon applicators having an adhesive reservoir would

not have led one of ordinary skill in the art to have removed the reservoir from the applicator. Nowhere does either reference teach or suggest how that applicator could be used in such an instance if the reservoir was removed.

In response, the Office Action merely argues that the references disclose "that the applicator body is a swab." However, the Office Action neither cites to a particular disclosure of the references, nor explains how such asserted disclosure would have rendered obvious the claimed invention. For example, the references' disclosure that the applicator can be a "crushable swab" does not correspond to, and would not have rendered obvious, the claimed invention that is specifically free of a polymerizable adhesive reservoir.

Accordingly, for at least these reasons, the references cannot have rendered obvious to one of ordinary skill in the art the invention of independent claim 135 and the claims dependent therefrom. Reconsideration and withdrawal of the rejection with respect to these claims are respectfully requested.

G. Conclusion

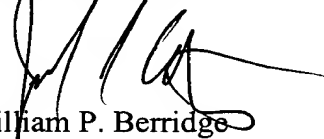
For at least these reasons, WO '598 and WO '797 would not have rendered obvious the claimed invention to one of ordinary skill in the art. Reconsideration and withdrawal of the rejections are respectfully requested.

II. Conclusion

In view of the foregoing remarks, Applicants submit that this application is in condition for allowance. Favorable reconsideration and prompt allowance of the application are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,



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WPB:JSA

Attachments:

Appendix
Executed Declaration

Date: August 13, 2002

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<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>

APPENDIX

Changes to Claims:

Claims 52 and 54-75 are canceled.